

## QUERY

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UniRef90_D2TW46 UniRef90 DOZBY9 UniRef90_S5TZ63 UniRef90-R8ATQ1 UniRef90-D3V4R2 UniRef90_K2XAU7 UniRef90-J7U5Y2 UniRef90 UPIO0037F98BB UniRef90_U3A2R3 UniRef90_UPI0002E2FC35 UniRef90 Q2NVZ9 UniRef90-V3SYV1 UniRef90-W9A9Q8 UniRef90_B2VH09 UniRef90_Q5E7E2 UniRef90-FOLU366 UniRef90_E8XU60 UniRef90_UPI0002D86A1A UniRef90_U3CDW8 UniRef90_A3MZJ3 UniRef90-L8JBB0 UniRef90_J4UT24 UniRef90_E8M790 UniRef90_E9CPJ7 UniRef90_UPI00035C3F98 UniRef90_E3BGA3 UniRef90-UPIOOO39414F3 UniRef90_UP100046FDBDD UniRef90_UPIO002EC18D4 UniRef90_B0B9S0 UniRef90-Q822W7 UniRef90-A6D3P7 UniRef90-M4XK32 UniRef90-C4SDD1 UniRef90-C8KXI9 UniRef90_B6A862
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REDOLSKRELI
 RSAI AGRLKVFQLLAGEGSQRQSQDLGVGMATVTRGSN


UniRef90_UPI00035D8E2A

| QUERY | $\text { SLK A A PVE }{ }^{90} \text { Q W WLE EVLLK S } 100 \text { W }$ |
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| UniRef90－I2BD13 | SLK K A P P D R A WL E KVLAAHQ |
| UniRef90－G9Y4L1 | SLK T A P A D K A WLEQQL |
| UniRef90－E1SCE9 | SLKEAPPELKRWLEAHL |
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| UniRef90－D2TW46 | SLKSATKEVKVWLEQQLL |
| UniRef90－D0ZBY9 | SLK M A S P DFKRWL VRQL |
| UniRef90－S5TZ63 | LK T A P H DVKL L L |
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| UniRef90－D3V4R2 | L K A A P APVRAWL E A QLLK S |
| UniRef90－K2XAU7 | LKSRSEDEKAALA QLLMQ |
| UniRef90＿J7U5Y2 | L K Y A P E EVK A WL E QELL S |
| UniRef90－Q8DEU5 | LKLKSDEDKARLNQL |
| UniRef90－UPI00037F98BB | L K EAPPEDKRWL ENWL L |
| UniRef90－U3A2R3 | LKAKSDTERRQI ARLLILKQD |
| UniRef90＿UPI0002E2FC35 | LKSKSEEEKTKLAELLI L T N |
| UniRef90－Q2NVZ9 | LKSAPPELKRWLIQQL |
| UniRef90－V3SYV1 | L K A APPELKNWLEVQL LSED |
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| UniRef90－C6CJ29 | LK S APARLK ${ }^{\text {a }}$ WL E E QLLP E |
| UniRef90－B2VH09 | LKSAPPALK NWLEAQLLTGS |
| UniRef90＿Q5E7E2 | LKSHTDEEKVWL M D |
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| UniRef90－UPI0002D86A1A | ELKAKSDDEKAQI AKLLLLK |
| UniRef90＿U3CDW8 | ELK SKSASDKEKLKRLLE Q |
| UniRef90＿A3MZJ3 | MLK T L EPQF ${ }^{\text {L }}$ E WL NE |
| UniRef90－L8JBB0 | ELKHHDEATKNWLA QLLREES |
| UniRef90－J4UT24 | MLK T L N P D F LVWI NENL |
| UniRef90－E8M790 | ELK S K S EQEKQLLAMMLLKN |
| UniRef90－F9H4T6 | MI K T MEPDFMQWMKQH |
| UniRef90－E9CPJ7 | SLKAASPELKQWLK Q Q L D Q S |
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| UniRef90－E3BGA3 | LKSKNDDEKQAMLELL |
| UniRef90－UPIO0039414F3 | ELKSCSEENKAALTALLLGEN |
| UniRef90－UPI00046FDBDD | L K E S P A ELRQWL E |
| UniRef90－UPI0002EC18D4 | ELKQFDESEKAWLVELLKK |
| UniRef90－UPI0002EBEE7F | LK QLDES QKVWL GKVLEK |
| UniRef90＿B0B9S0 | ALK GSDPQFKEFLQ |
| UniRef90－Q822W7 | ALKAIDPKFKEFLKN |
| UniRef90－A6D3P7 | EVKRLADKDKNALSDLLLK |
| UniRef90－M4XK32 | MLK TLLDQDFLQWL N |
| UniRef90－C4SDD1 | SLKAAPPELKNWLEDQLL |
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| UniRef90－UPI00046663AF | SLKEASPEFKLWLEKNL |
| UniRef90＿F9Q5T3 | MLK TMDSDFLA WVKHHLDAQN |
| UniRef90－B6J8C4 | ALK T T S D K I K S FIK |
| UniRef90－F8L7Z0 | ELKGワDEKLKQFLKRSL |
| UniRef90－K2DPP8 | FLKILEQNLRGRLESLLLK |
| UniRef90－C6AP77 | MLKTMDPEF $\mathrm{C}^{\text {L }}$ WI K N |
| UniRef90－V5FMX5 | ELKGRSEEEQQLVSRJLK |
| UniRef90＿UPI000471E962 | Y K K M P ${ }^{\text {de Q K D K I GVL }}$ |
| UniRef90－UPIO0030AFD0E | ELKKLEQDKKQQLQRML |
| UniRef90－K2CR31 | ALKMLDPKLKAFLKKNV |
| UniRef90－D2AKJ3 | ALKDCSARVKE円FSENIKK |
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| UniRef90－K1Z7Z4 |  |
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| UniRef90－A1S403 |  |
| UniRef90－K2BTE0 | ALKSLSDNTDQFLKKNMVS |
| UniRef90－K2D5U7 | ALRIADPE\｜KKIIV |
| UniRef90－E1SSC8 | NLKTMSEAERALLS RLIL |
| UniRef90－W1HPH0 |  |
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| UniRef90－S6EKT0 | MI KTMPPEFMQWVKEQLNEQ |
| UniRef90－13DCl3 | MLK LMPPEFMNWVKAQI DEKN |
| UniRef90＿U4TG64 | ELKRVDSHLRAMLEEA |
| UniRef90－Q01456 | MI K $\square$ MPPEFMDWVKQQLNHNN |
| UniRef90＿S3JSG5 | ELHKEESAFRRMLEKL |
| UniRef90－10XBB6 | ELAKEGSAFRKIL |
| UniRef90－FORYG8 | L K Q K D Y CKRLLS D |
| UniRef90－J6CXN6 | $\overline{\mathrm{M}}$ I K |
| UniRef90－F4LNS4 | ELKKADSAFRKM |
| UniRef90－U2KR93 | ELKKENSAFRKVLDSL |
| UniRef90－L8XVP6 | FLKDENN |
| UniRef90－UPI00038099F4 | Y L K TLIS D E M A M $\square$ E Q |
| UniRef90＿UPI0003B2FF2A | ALKQHSPE |
| UniRef90－H7EHB3 | ELKKNDSAFRK L L D K |
|  |  |

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 RDEGLHELCATHAGMTSARDVEDFFGCLETEAE DPAVEENLTELASTLAKTGDPALIKDFLRCLLTPAE DNDARTALFDALLDRTREEVDAFLSDLCTPSE FTKLLHQAFSQEEVKDFLTDLCTPKE MKQREDANRDGLARVLAADDGPDAVDALJLDDLCTPAE TO YDELLAAVFASTTDTEKMKQLLDDELLTPAE
PAADRDGDA
TDYDDLARILAGNGTDEQEMA AFLLQDELCTPAE
DKHFSEMCEFLAKTDDAKTVARFLESLDTPKE
SAAMAEQRHQEWLRFVDLLKKSDQEAKHYEFFNCLGTKDE
STVDDTA ARLCDVLARLDGSEAVQSFLEDLCTPAE
PETKNSQNDQUKECMLLSKDQDENLIFDFFGCLETKSE
EEQHFHELTAYLHRAETPSDLSR ILEGLL
NGKELESRTLASCTSDSABDIEALELR
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TP园ESAEO RQLAAAFSLITRPE

MTTPPARD
$\square \mathrm{Q}$ DLVAVLAALPDP

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## MSESPY

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ALLDHLLSAESPEELDLRLEQLLTPGE NPTDQTYHSLLTHLAQLTDPEQIDTVLSALLTDKE

GWELVVDKVLTHNNVVELDTTLENLLLTEEE
EWGLVAEKVVNHHDHNAMRRELLVELCCTPAE
MTTNNDDAYQSLVQHLTQLTDSHEUEAVLAALLTDK
D D H QA

ENNKQLNEFDDTLLRMDNREKMRD
NELLDHGHSMQDEQVEAF
ALLDALLSGKDRSLADARDLTPAE

PVPRRDAEAALDGLARALAAERPEDVVAFLRDCTPAE
TLSPSHYQA ELVRHLVALETPEAMDAALASLLTPAE
EWGSVLEKVLSHQAHDDLLVLFELLLETEEE
SपSPSVPDEEAEASLCEALVSGKSVESMQAFLHDLCTPAE
QKLIQFLREVENDAQMERKLNALL
DLI QFLTEVDDESVLEKRLKVLLTPNE

NE DQTKHEQDLFDAILTLENNGEARSFFYDLCTPAE QPRAQAEEGLCRALLAMRDVGEMRAFLRDLCTPAE KNENELFEAIS DDNIKECKNFFYDLC
PREKDAQADLSALARAFAPAQVTAFLRDLCTPAE
P N P A Y K S L L G H L A H L T C C D K E I D A A V L S A L L T D K E

P T E E M R N L Y K A
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 REDLAKRWLLVREI DRGT TQREI ARMFKMSLCKITRGAK A A DLAARWALVKALDK K I PQRED
IRAFAERWEVARLLDAGGKSYRE


## V


LEALSDRWCVVPLLAEG VSYRQIHERTGVSVTTMGRVAR
LKDFSKRWSLVKELDEGT T QREI AKKYNLSLCNITRGSR LHATSQRLQITR LDKAGVSQREVAKRLGVGIATVTRGSR QHEIANRIRIFDLLARGVTQREISEQLGVGIATVSRGAK
 SDLSLRWKLAKDLHRGMTQRK

| $L$ | $A$ | $M$ | $A$ | $D$ | $R$ | $W$ | $Q$ | $V$ | $V$ | $P$ | $L$ | $L$ | $R$ | $K$ | $G$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $L$ | $M$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $L$ | $D$ | $D$ | $I$ | $S$ | $L$ | $R$ | $W$ | $K$ | $L$ | $L$ | $K$ | $D$ | $L$ | $H$ | $Q$ |
| $I$ | $G$ | $M$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $I$ | $N$ | $D$ | $L$ | $C$ | $M$ | $R$ | $W$ | $Q$ | $I$ | $L$ | $R$ | $G$ | $L$ | $R$ | $A$ |

## 


READTDRWAVVPLLAEG MSYRA
QAEAAKRLQQ FALLQQGLPQRE:
LEEMSRRFQIFKLLVKGTPQREV
EAMSDRWRVVPLEVKG VPYRE



MQALAERWRVARLLAEGEKSYREL
LEAMVDRWEVVPMLARQGVPYRS


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## L <br> <br> L

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## Y

## L

## $\Sigma$

LTAMADRWKVVPMLLQQGVPYRE

Y Q


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UniRef90_S6HFH8

F TTNEPKGYQK ILKR
A Y QVVNDVA
E
ELKKPNSALSTGVDKY LINNE
VFHQHQDDE
TLERGAGGYARAV
NLKAMSDKEKQLLQTLLIRK
FLKEEPHQ
FLSSEPQGYKK■LKR
FLKNEP
T $\mathrm{LEHGAGGYR} \mathrm{\square ATKR}$
F
FLAAGNGGY
WLHHGMGGYRRMLERL
YLKHMTEEEREQIKQLTL
WLKTAGEGLDKII DKL
SLNGEYGGYRKVLVK
ILKDPNSTSRKFLERTL
ALKDGCDGYQQIFDR R LQKRE

WLKDGENGYVTALKR
WLKDGEGGYELVLKR $\square$ SKK NARSPKVRAYFRKH
YLNYGASGYRLMLKRL
SLKAAPAELRQWLEQELLQAQ
CIEYGSGGYKMIERL
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CLLNGMGGYRLVLERL
CLNYGNDGYDEMLERL
ALK
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ALRFGSDGYHMVLER
WLFKGCGGYQKVLS
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CLQHGAGGYTVILERM
FLNYGADGYKLILERL
AL NGEYGGYRRVIVRLL
CLOYGSGGYR IVLDRL
YLYYGANGYQLILQRLKEQND
CLFYGAGGYRLI LDRL
FLDYGADGYRI ALER
SLNYGNDGYAIVLERMSENN

CLNYGNGGYMAALERL
ctivy ang grk titik kn
CLHYGADGYRIILDRL
SLNYGNASYDKJVARLEEKN
FLNYGADGYKIILERL
WMRDGYGGYQTMIDK
CLKNG QGYKKVFNE
CLNYGADGYNNILNRL
WLHHGQGGYQLALSRL
CLNYGSDGYRRVLER
WLNDGTGGYKEII KNM
YLNYGADGYQLILERMAEKDE
CLVYGADGYNTVLDR
CLNFGNDAYQMALDRIYKKEE
ALKDGAGGYA TAFERL
CINYGSDGYNRVISRRKRNEE
CLLSYGAGGYRLLLDRKRE
WLFRGCGGYQKVL
WLKHGKGGYGLVLKRL
C:EYGTGGYNLILDRE
CLEYGSDGYNLVLERGYYKN
CLNYGEGGYNLVLERMYPKNN
ALNYGSDGYNTVFER
TFKYGNDGYKLVEERL
Fh YGADGYRLV ERR
CLVYGTGGYDKILERLKKKN

CLKFGADGYVQVLSRM
CLNYGSDGYSLVLARL
$A M R T$

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UniRef90 C7HU70 UniRef90-C7HU70 UniRef90_UPI000425AABE UniRef90_UPI00040D69C7 UniRef90_I8SBJ1 UniRef90 C0GKP1 UniRef90_UPIO001E30116 UniRef90-K2BHB9 UniRef90-B8D0Z6 UniRef90-UPIO0047963D9 UniRef90-M1YSZ7 UniRef90-J4KFZ1 UniRef90-D4N1D7 UniRef90-F5L442 UniRef90_U2KRI9 UniRef90-F2JMN4 UniRef90-R6IZS5
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UniRef90_R6DQ21
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UniRef90 R6LR56
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UniRef90-F3YRB7
UniRef90_K1Y5X1

QrFKALEKND
D K L


MSDLRTPEVESLLKVLVTLDDPDQ MSDLRTPEVEDLLTVLAGI EKNDDAYALL


EKNEDFYKA LLLK

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1 \boxed{L K}
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CDNED | $D$ | $L$ | $F$ | $R$ | $S$ | $L$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $D$ | $L$ | $L$ |  |  |  |
| $D$ | $C$ | $R$ | $A$ | $L$ |  |

FVVE FTSLS
ENKNAD

KDKTLNEFFDAIMMLKGRDE

TQAEFRQMD

$Y$
$Y$
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QDDYMDQLFYKAVLA L E SNE
KEVEQLFNAVLQLENMED
HNEETRKLMEGILKLQSVEE
 DTEEVRHLFEGMQQLETTEEYFRFF
MSNQKDEFTDQLCDS VVATTDRDEAYRF伿DVATFSE

 ETAEMDELLRAILSLETVEEAYEFFEDLCTVNE DQLEKAILSLKKDEEQCYKFFED:CATUS
RTKEVDHLFAA L SLLETKEECYTFFEDVCTVNE
QLEEDLQALAKAFLLLKTEEECTAFLKDVCTYQE

AESKLKNPELDLFFEAVLKLGSVDDCYNFFEDVATMNE



KDEYTDELFEGILKLKNIDDCYRFFEDVCTIKE RDENVDYLFKAILKLNTVDECYDFFEDLCTVTE

SSDESKGKDKTDLFFDALHLETIDE PK四KEPGTDQDFKALLLASLNEEE

RERNLVRLCRALCSLKSEEGABASLLESDLCTISE

KELDQLFKAILSLKDLDEAYRFFDDLATVNE
DALYYRALIVSSURNEE DS CRAV S
QGLDEFFQGLLTLENLEEC


| UniRef90 T0DC72 | $\text { LHYGSDGY } 80$ |
| :---: | :---: |
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| UniRef90_G5F436 | CLNGEAGGYRRVLA |
| UniRef90-UPI0004790F94 | Y L N Y GANGYNII L E |
| UniRef90-K2EJW8 | WLTKGEGGYKI I I N |
| UniRef90-C3FBM3 | SLNYGNDMYDVI FTR |
| UniRef90-R5BP31 | CLVYGADGYK |
| UniRef90-UPI000289C992 | SLNYGNQGYKVVF |
| UniRef90_D3FSN2 | CLNYGNDGYKMT |
| UniRef90-M1MCB9 | CLNYGSDGYNTV |
| UniRef90-UPI00047152EB | FLLYYGSDGYNIVLDR\\|S |
| UniRef90-N1ZNF5 |  |
| UniRef90-UPIO00262930E | CINYGSDGYKIVLDRLLD Q |
| UniRef90-R9KX97 | CLS Y G S G G Y K RAL |
| UniRef90-E6U8M3 | CLHYGSEGYT TVVLERLL |
| UniRef90-A0Q2Q5 | CLNYGSDGYNVVLER |
| UniRef90-D0WGN1 | ALNYGTGGYARALD |
| UniRef90-R7BSD6 |  |
| UniRef90-B2UYH2 | CLNYGSNGYKTILEKL |
| UniRef90-C8W1L3 | CLNFGADGYKLVLDRL |
| UniRef90-UPI00037E342E | CLQYGSDGYQLVLRR |
| UniRef90_G9WSV5 | SLNYGEDGYRLAFER |
| UniRef90-R5S7D7 | SLTDSDGGYERIIFARM |
| UniRef90_C7HU70 | SLHYGTDGYDLVLEKKLIENN |
| UniRef90-W2BXU7 | CLVY GADGYKRVLDRL |
| UniRef90-UPI000425AABE | CLDYGSDGYRTVLDRL |
| UniRef90_UPI00040D69C7 | CLNYGSDGYSIILDR |
| UniRef90-I8SBJ1 | CLHYGADGYKFMLER |
| UniRef90-C0GKP1 | L N Y GA G G Y Q ${ }^{\text {V L S R L }}$ |
| UniRef90_UPI0001E30116 | AL NYGADGYKTILDRLADKKD |
| UniRef90-K2BHB9 | SLKTG A GYRAII S S |
| UniRef90-B8D0Z6 | AL HYGADGYKLILDRM |
| UniRef90-UPI00047963D9 | CLNYGSDGYNTALNR |
| UniRef90-M1YSZ7 | SLHYGNDGYELVFER |
| UniRef90-D6SBF2 | SLQNGAQGYELVLDNL $\quad$ A K N |
| UniRef90-J4KFZ1 | CLNYGADGYALVLSRLIPPHEE |
| UniRef90-D4N1D7 | SL NYGSDGYDMV |
| UniRef90-F5L442 | CLNYGTQGYQLALDKLL |
| UniRef90-U2KRI9 |  |
| UniRef90_F2JMN4 | CLSYGSDGYKLI LDR |
| UniRef90-R6IZS5 | SLQYGCDGYDK। FER |
| UniRef90-D9QT59 | NYGAGGYQLILDRLL |
| UniRef90-B2A5W3 | FLHYGAGGYEVALKKL |
| UniRef90_UPI0003B525C3 | CLHYGTDGYKLALDRLYKEE |
| UniRef90-R5GP76 | CLNYGTDGYQLVLSRM |
| UniRef90-R5Q199 | SLRDGSEGYMTVLSR\\|LKNTE |
| UniRef90-M9LCY4 | CLNYGNDGYKMSLERL |
| UniRef90-C2L0R9 |  |
| UniRef90_D5XD51 | CL NYGADGYKLVL |
| UniRef90-A0A010YF36 | FVEYGADGYRDVLRKL |
| UniRef90-W7UYF9 | SLKDGNDGYNIVFDRLKKKN |
| UniRef90-D4M9C0 | CLDYGTGGYNVVLE |
| UniRef90-Q67KG9 | CLNYGADGYRIVLER |
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| UniRef90-A0A017RX59 | SLNYGNRGYQIVFERLKEKKN |
| UniRef90-K2GCS3 |  |
| UniRef90-D4J0P4 | AL NYGNDGYDMVL |
| UniRef90-E8LGR3 |  |
| UniRef90-E4L8U5 | CLKYGADGYVKILKRMEEAS |
| UniRef90-R5YS70 | SLNYGNDGYDMVLK |
| UniRef90-X0U0V4 | WLRHEGQGYRQ |
| UniRef90_R5VJL0 | TLRDSTGGYQAVLERME |
| UniRef90-UPI00031E48E0 | CLTYGSEGYT TV |
| UniRef90-UPI000379B550 | SLKYGKGSYQKIL SKI TVQEN |
| UniRef90-V9H1P3 | CLNYGTGGYNLILDRL |
| UniRef90-UPI0002E898C5 | C FD Y GNDAYEEMLSRLYPNE |
| UniRef90-D9SWR1 | CLNYGSDGYK I I |
| UniRef90-R6QLE6 | ALSYGSDGYTQAF |
| UniRef90-U2DV44 | SLLYGCGGYDKL |
| UniRef90-B0TDN6 | CLI Y GADGYRLILQRL |
| UniRef90_G4KR33 | CLVYGADGYARI I A RLAE E Q Q |
| UniRef90-R5XCN6 | SLQF GCDGYDKI FER |
| UniRef90-R71JJ3 | ALLYYGANGYTAVLDA |
| UniRef90_K0AU76 | VLNYGAEGYDMVLDRL |
| UniRef90-R6PNR1 | SLQY GCNGYDEI FKRM |
| UniRef90-E1L6K6 | CLVYGADGYTVVLDRLL |
| UniRef90-R6DQ21 | SLQYGCGGYDLI FDRM |
| UniRef90-W1UD97 | CLNYGSDGYNLVLEKL |
| UniRef90-EONWJO | CLNYGADGYTLVLKNGCLSVN |
| UniRef90-A1HMH4 | CLHYGADGYKLI L A R |
| UniRef90-R6J578 | CLVYGADGYNSIM P P LKKED |
| UniRef90-U2UYZ6 | CLHGGSGGYRLVLERL |
| UniRef90-I3VYG4 | ALNYGANGYNLILDRLKEKS |
| UniRef90_K1XS37 | WL NYGEGGYM TAL K R |
| UniRef90-E3GKR1 | CLKHGK GYRQ\\|I ERMFDQNE |
| UniRef90-W4RQ87 | CLNYGNDAYEMALERLKEQEN |
| UniRef90-V2XX54 | CLHYGAGGYKVIVPRL |
| UniRef90-R6LR56 | SL N Y G N D G D M V FERL |
| UniRef90-UPI0002FE834D | ALAFGADGYRRVLDK |
| UniRef90- F3YRB7 | SLHYGNDMYDVVFSRMTKPE |
|  | W/L Y F G R G G Y K K A I S K |




UniRef90 R7JUN6 UniRef90_R6WYR9 UniRef90_R6V3D8 UniRef90_U2WDN2
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UniRef90-R5H4P1 UniRef90-UPI0003B6948F UniRef90_UPI0002E66CEC UniRef90_F2NBK4
UniRef90_T0IJT5 UniRef90_E3D129 UniRef90_UPI00047E5D02 UniRef90_R5E652 UniRef90_R6CDL7 UniRef90-R6SFR0 UniRef90_T1BAR6 UniRef90_V1CL95 UniRef90_G2G082 UniRef90_V2Y9L9 UniRef90_UPI000471BBA8 UniRef90_R5GXD8 UniRef90-D4KB73
UniRef90 R5JXS2 UniRef90 R7FZQ0 UniRef90_C6LKC6 UniRef90-W1TVC1 UniRef90_U4KP94 UniRef90_R9M8C0 UniRef90_C7H5T0 UniRef90_R5MDZ0 UniRef90_R5B5C0 UniRef90_R6TDE7 UniRef90-G5LIA5 UniRef90_R7ANS4 UniRef90_UPI00047AAB1A UniRef90 UPI0003655020 UniRef90 ${ }^{-}$R7KAI5 UniRef90_E6MDH3 UniRef90_R7AE24 UniRef90 D6E7T7 UniRef90_N1ZVB1 UniRef90-R6BFR2 UniRef90 H1HRG6 UniRef90_K2DG47 UniRef90_C0EJ60 UniRef90_R6SPU3 UniRef90_R5EAM2 UniRef90_UPI000377DE0C UniRef90_E0RVM5
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UniRef90_A5IU74
UniRef90 R5IY07
UniRef90_F9N3R9
UniRef90 R7ADS3

SL S Y GND GYEMVFERMEKKEN
C I Q H G S G G Y K K FilK T

C Q Y G S G GYEKI L N R
C
${ }_{C}^{C} L_{L}^{L}$
CL N Y GAD GYRTVLER
WL K N G L G GYR LAL

 SLNYGNDAYDMVFERLNDKDE S L M F G A D GY R L V L D R L
CVV Y G S D G Y K L V L E RLL
${ }^{T}$ L
S L H H G N G S Y R L M L S R L
A L N G S C G G Y R R L L VK
CL Y Y GAD GYKTVLDK

| F | L | $E$ | $Y$ | $G A$ | $D$ | $G$ | $Y$ | $K$ | $L$ | $V$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $C$ | $L$ | $P$ | $R$ | $L$ |  |  |  |  |  |  |
|  | $H$ | $H$ | $G A$ | $D$ | $G$ | $Y$ | $K$ | $L$ | $V$ | $M$ |

$\begin{array}{ll}C \\ A & L \\ \text { L } \\ \text { L }\end{array}$
${ }^{\text {A }}{ }^{\text {L }}$
L Q G GND GYS $\quad V F D R M$
ALFRGAGGYRTVLER
CLKYGADGYRLVI DR MKND
CLNF GA D GYQLI L QRL
S L T Y G N D G Y E M MQR
SL N Y GND GYE LVVSRMAEASE
$V L$ S A D D S V L R A L L A A

S L N Y G S D G Y Q M V F K R M

C L Y F G A D G Y Q L I L K R L A K K E
S L S Y GAD GYKLVLER
S L N Y G S D G Y QVV V E R

C
SLS D G S G GYN IVFDRLDKKED
SLLNYGKDGY

WL TEKGDGFRNVIKR
CV SHGSGGYAKFVRR
CLK H GR GYRRVI DRM
ALNYGTGGYQLAL E VL
CLSYGS GGYNAALNAL

| $S$ | $L$ | $N$ | $G$ | $H$ | $D$ | $G Y$ | $D$ | $M V$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $S$ | $L$ | V | A | $R$ | $L$ |  |  |  |


A L N A


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| UniRef90_F4XA36 |  |
| UniRef90_UPI00016C0C65 |  |
| UniRef90_R6HTT6 |  |
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| UniRef90 R7EMA0 |  |
| UniRef90_M1YZC2 |  |
| UniRef90_F9DT44 |  |
| UniRef90_K2B596 |  |
| UniRef90_UPI0004790CF6 |  |
| UniRef90_U6BAQ2 |  |
| UniRef90_R5EX95 |  |
| UniRef90-R71335 |  |
| UniRef90_R7KV94 |  |
| UniRef90_K1Z1U0 |  |
| UniRef90-R7NL86 |  |
| UniRef90_F5SJ18 |  |
| UniRef90-K1 YL34 |  |
| UniRef90_W2EES5 |  |
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| UniRef90_K1Z556 |  |
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| UniRef90_UPI0003658D0E |  |
| UniRef90_M7NVU7 |  |
| UniRef90-R6IZB6 |  |
| UniRef90_K2BZR6 |  |
| UniRef90_R5DFT8 |  |
| UniRef90-K4ZSV3 |  |
| UniRef90_R5AUL3 |  |
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| UniRef90_R6N1R3 |  |
| UniRef90_M9LDK1 |  |
| UniRef90 H6LHJ1 UniRef90 UPI0003B5B0A9 |  |
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| UniRef90-UPI0003700851 |  |
| UniRef90_R6HLX7 |  |
| UniRef90_R6H1B7 |  |
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| UniRef90_R5HAB2 |  |
| UniRef90_D1Y7S3 |  |
| UniRef90-F4XFE9 |  |
| UniRef90_R2QSI2 |  |
| UniRef90-K1U3S9 |  |
| UniRef90_K8EUK0 |  |
| UniRef90_K2DH12 |  |
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| UniRef90-UPI0003659C33 |  |
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| UniRef90 J8TNJ8 |  |
| UniRef90-K2EY41 |  |
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| UniRef90_R7D636 |  |
| UniRef90_K2ESU4 |  |
| UniRef90-K2EWF9 |  |
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| UniRef90_A5KSK6 |  |
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|  |  |

UniRef90_K2C2C0

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


| UniRef90_UPI0002E36362 | $C\|L\| N Y G N D A Y E \stackrel{90}{L} V L \mid D R$ |
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| UniRef90-A9NHU1 | CVRYGTGGYKKVLSK |
| UniRef90-F4XA36 | CLHYGANGYRTILPR L |
| UniRef90-UPI00016C0C65 |  |
| UniRef90-R6HTT6 | SLNYGTDGYRLVIERM |
| UniRef90-R5BQT6 | SLNYGNDGYEMVFQRL |
| UniRef90-R7EMA0 | CLSYGTGGYKKI DERL |
| UniRef90-M1YZC2 | SLNYGVDGYKIVFE |
| UniRef90-F9DT44 | CVDYGSGGYNLMLDRLLKNN |
| UniRef90-K2B596 | K $\square$ E E K G WKLFVRKLEGLED W |
| UniRef90-UPI0004790CF6 | CLRYGAEGYQT |
| UniRef90-U6BAQ2 | CLNYGS G G Y DLALAR R |
| UniRef90-R5EX95 |  |
| UniRef90-R71335 |  |
| UniRef90-R7KV94 | TLKYS GAGYRIVFDRL |
| UniRef90-K1Z1U0 | WL NNGEGGYKMVLSR\\|LKGNE |
| UniRef90-R7NL86 | SLIY G S D G |
| UniRef90-F5SJ18 |  |
| UniRef90-K1YL34 | WV HF GRGGYK】AVR |
| UniRef90-W2EES5 |  |
| UniRef90-UPIO0047032DE | CVDYGTGGYNLIVDR\NEKQE |
| UniRef90-K1Z556 |  |
| UniRef90-UPI0003F827A5 | CLNYGNDAYSMVLDRLL |
| UniRef90-UPI0003658D0E | CLNYGADGYKLVLER |
| UniRef90-M7NVU7 | C FD Y G S G G Y GEI L E R |
| UniRef90-R6IZB66 | SLQYGKDGYE VFERLAEQKE |
| UniRef90-K2BZR6 | FLDSRGQGYGIAlA K |
| UniRef90-R5DFT8 | AL $\square$ NGTGGYVSVLDKM |
| UniRef90-K4ZSV3 | SLNHGNHSYELMFARMKEQAD |
| UniRef90-R5AUL3 | SLQYGTGGY |
| UniRef90-I5AVF4 | SLDY G N D G E M V LT R M |
| UniRef90-D4LCR3 | SL |
| UniRef90-R6N1R3 | AL NYGCD GYEMVFR R L |
| UniRef90-M9LDK1 | SLDHGNNSYDVI FKRM |
| UniRef90-H6LHJ1 | CLKHGK GYRNI I EKM |
| UniRef90-UPI0003B5B0A9 | LIEHGADGFTLVLER\AKKE |
| UniRef90-K2DL38 | VLQKGHGGYQSVI GSILRKEE |
| UniRef90-UPI0004785B49 | ALDYGTDGLLRVLERL |
| UniRef90_UPI0003700851 | RIK K G T G GLKKALLS |
| UniRef90_R6HLX7 | A |
| UniRef90-R6H1B7 | SLLN GA G GYe NVLERMKEQEE |
| UniRef90-K2E7H2 | VI KFGKGGL |
| UniRef90-UPI00047BA662 | $V \mathrm{~N}$ Y G T GALGELIER |
| UniRef90-R6DD87 | SL $\square$ Y G N G G Y ESVL |
| UniRef90-K1Z4T1 | WLHFGRRGYKA L L E A LKLKE |
| UniRef90_R6SJT5 | CLK F G |
| UniRef90-R6MEN4 |  |
| UniRef90_E1QZJ8 | CLNGPEGGYRLLVLSRLL |
| UniRef90-R4PXB9 | WMDNGTGGYQA L S |
| UniRef90-R5HAB2 | MLNYGT GADEEVMER |
| UniRef90_D1Y7S3 | CL R Y G S G G Y R L A L A R L |
| UniRef90-F4XFE9 | S M |
| UniRef90-R2QSI2 | IIDDE G N G G L L M V |
| UniRef90-K1U3S9 | ML NYGTGAVGKSVRHDLAA Q Q |
| UniRef90-K8EUK0 | SLFDGNNSYDMLFKR |
| UniRef90-K2DH12 | NL GNSGWQEMIKR $\quad$ K A EEW |
| UniRef90-R7PQT1 | CLAYGADGY@KVLERM |
| UniRef90-UPI00036C8B25 |  |
| UniRef90-UPI0003659C33 | DLTR PEVKKII EK L EAEEW |
| UniRef90-K2E6S3 | LFP DKESKLIGI I GALLLNQE |
| UniRef90_A5I6Z9 | CLN Y G S E GYKIVL |
| UniRef90-J8TNJ8 | CLHREKS GLRVAIIERLL |
| UniRef90-K2EY41 | YLFNNSHEIKKFFSKRINDEQ |
| UniRef90-R6GUY0 | ML NYGT G CLGEVIDR RL |
| UniRef90-R7D636 | A L K K L |
| UniRef90-K2ESU4 | Y L K S |
| UniRef90-K2EWF9 |  |
| UniRef90-K1ZJ05 |  |
| UniRef90-H7CXG3 | A L K K $\mathrm{L}^{\text {N K E F }}$ |
| UniRef90-T0ZNV9 | ALFRGAGGYRAVLD R L L P K |
| UniRef90-K2AU92 | N L |
| UniRef90-K2FPG8 | VI KFGKGGFK LIT TKV |
| UniRef90_UPI000378A19B | QLNLLKSKGFHETIEKLIKKNE |
| UniRef90-A5KSK6 | WMQNGCDGYSAVL |
| UniRef90_UPI0004665BC3 | VLRKTQQSNRNAL |
| UniRef90_K2C2C0 | WLK F PHPGTEKT F A H DKQKDF |

[^0]
[^0]:    lupas_21
    lupas_14
    lupas_28
    jnet
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    jpssm
    

